

Work Order ID 91103

91103

Page 1

October-02-12 3:13:24 PM

Item ID: 647.0300 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Channel Extrusion
 Start Date: 10/01/12 Start Qty: 120.00 *120* Cust Item ID:
 Required Date: 11/06/12 Req'd Qty: 120.00 *120* Customer:
 Reference:

Approvals: Process Plan: ✓ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.0300									
100	PURCHASING	0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: 18070								
	a) Description: EXTRUSION FOR CHANEL								
	e) Material: 7075-T6								
	f) Material certification required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.00							
Packaging	Ensure material certification is attached								
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control	Ensure Material certification comply to Dwg 647.0300								

u 120.04

42/11/23 (18070)
158144

on 12/11/27

144

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											
FAULT CATEGORY											
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube			General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio			<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions			<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other

Work Order ID 91103

91103

Page 2

October-02-12 3:13:25 PM

Item ID: 647.0300 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: Channel Extrusion
 Start Date: 10/01/12 Start Qty: 120.00 *120* Cust Item ID:
 Required Date: 11/06/12 Req'd Qty: 120.00 *120* Customer:
 Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start *NR1*
 QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>144 36</i>	0.00							
130									
Packaging	Memo	0.00		<i>OK 12/11/27</i>		<i>144</i>	<i>0</i>		
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							<i>12/11/28</i>
Quality Control									

12-11-27

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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Picklist Print

October-02-12 3:13:22 PM

Page 1

Work Order ID: 91103

Parent Item: 647.0300

Parent Item Name: Channel Extrusion

Start Date: 10/01/12

Required Date: 11/06/12

Start Qty: 120.00

Required Qty: 120.00

Comments: IPP REV:A NEW ISSUE 12-010-01 JLM VERIOFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.0300P Channel Extrusion		Manufactured	No				f	0.0000		120			

10/2/12 23
(120)
144

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

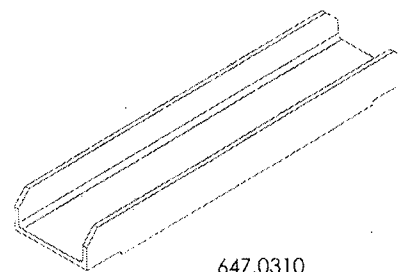
Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped.	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND IS TO BE USED FOR THE PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

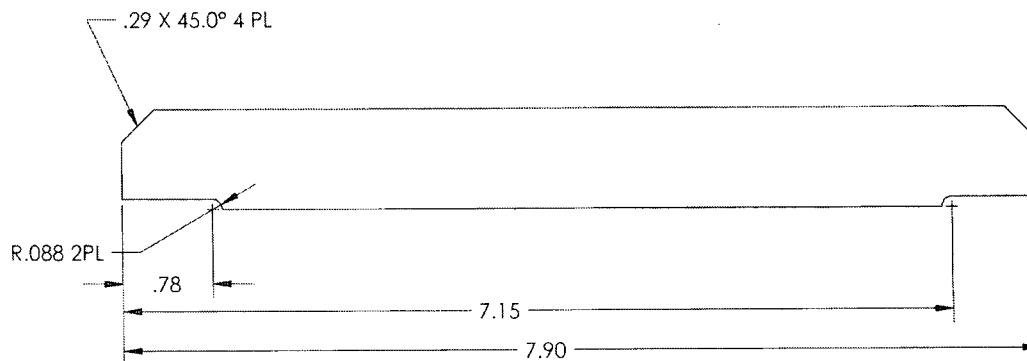
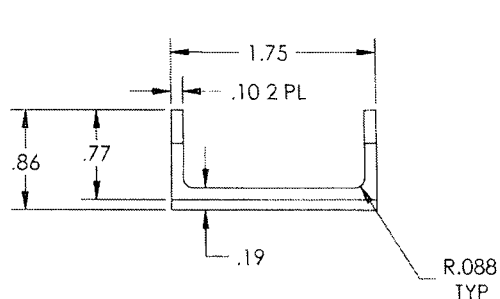
NOTES:

- 1 MATERIAL: 7075-T6 ALUMINUM PER AMS-QQ-A-225/9
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III CLASS 2.
COLOR BLACK: CARDINAL 4860-50 PRETREATMENT PRIMER:
PRIME IAW MIL-P-23377 TYPE I CLASS N
- 3 DEBURR AND BREAK ALL SHARP EDGES
- 4 IDENTIFY IAW MPP-120

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
1	LAST PRODUCTION RELEASE		ETC
2	REPLACEMENT	03/01/09	P. B. A. / C.



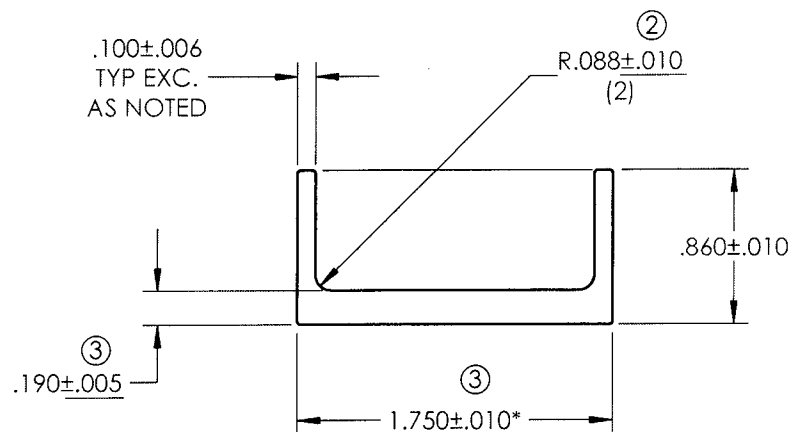
647.0310



		647.0310	CHANNEL		
	FIND #	PART NO.	DESCRIPTION	MATL	SPEC
	QTY	PARTS LIST			
NEXT ASSY IS	APICAL INDUSTRIES				
646.9500	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300				
	CHANNEL				
	DET	CAGE CODE	IMP. NO.	REV.	
	5	07M26	647.0300	N/C	
	SCALE NONE				
	SHEET 1 OF 1				

PART NUMBER: 647.03-CHANNEL	REV:	ORIGIN DATE: 10/1/2012	UAC NUMBER:	REV:
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CUSTOMER APPROVAL		P/A #: 3
CUST. NAME: DART AEROSPACE		
PART NO: 647.03-CHANNEL		
SIGNATURE: <i>[Signature]</i>		
TITLE:	Dir. of Oper.	
DATE:	12/10/04	
P/A #: 3	changed tol as marked (slai) 10/2/12	
CUST. CODE:	DART	



* TOLERANCE TO APPLY AT BASE AND TIPS

.031 MAX CORNER RADII TYP. EXCEPT AS SHOWN.

STRAIGHTNESS: .0125 PER FOOT OF LENGTH.
FLATNESS: .004 PER INCH OF WIDTH.
TWIST: 0°30' PER FOOT: 5° MAX.

			<p>P.O. BOX 6316 ANAHEIM, CA 92806-6316 PH: 800-331-7772 FX: 714-630-7207</p> <p>180 LAMAR HALEY PARKWAY CANTON, GA 30114 PH: 888-479-7230 FX: 678-880-1474</p>		 <p>MASTER T-TEMPER</p> <p>Universal Alloy Corporation A Company of Montana Tech Components AG WWW.UNIVERSALALLOY.COM</p>		<p>Dumbravila Nr. 244 A Maramures Romania 437145, Europa Telex 40 241480958</p>	
			CODE:	CP2	AREA:	.470	ALLOY:	7075
			STANDARD COMMERCIAL TOLERANCES PER FEDERAL STANDARD 245 AND ANSI H35.2 FOR EXTRUDED PRODUCTS TO APPLY UNLESS SPECIFICALLY SHOWN OTHERWISE.		WT/FT:	.564	SHAPE:	SOLID
					PERI:	6.443	DRAWN:	S.LAI
					FACTOR:	11.4	CHK'D:	BACLIG T.
					C/S:	1.9	DATE:	10/03/12
REV	REVISIONS	DATE						

UAC HAS PREPARED THIS SECTION DRAWING TO PRODUCE AN EXTRUSION THAT MEETS THE CUSTOMER REQUESTED PART CONFIGURATION. THE CUSTOMER SHOULD THOROUGHLY CHECK THE DRAWING AND THE DESIGN. UAC HAS NO RESPONSIBILITY OR LIABILITY FOR THE PERFORMANCE OF THE DESIGN. UAC'S ONLY WARRANTY SHALL BE STATED ON THE SALES ORDER ACKNOWLEDGEMENT.

Linda Lacelle

From: Pablo Bravo <pbravo@apicalindustries.com>
Sent: September-26-12 8:18 PM
To: 'Isam El-Kassis'
Cc: 'Steve Joseph'; 'Linda Lacelle'
Subject: RE: RFQ - CCK's

Isam,
The material recommended by Universal Alloy is an acceptable alternative.

Regards,

Pablo

From: Isam El-Kassis [<mailto:ielkassis@dartaero.com>]
Sent: Wednesday, September 26, 2012 12:52 PM
To: Pablo
Cc: 'Steve Joseph'; 'Linda Lacelle'
Subject: FW: RFQ - CCK's
Importance: High

Hi guys,

It's me again, we are trying to purchase some material from extrusion, and we had a question from our supplier about material change to extrusion, could you please look into it and let us know if this is acceptable for you guys to proceed. Please let me know ASAP.

Thank you,

Regards.

Isam El-Kassis
Director of Operations



T(613) 632-5200 ext. 231
C(514) 463-7574
F(613) 632-5246
ielkassis@dartaero.com



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From: Linda Lacelle [<mailto:llacelle@dartaero.com>]
Sent: Wednesday, September 26, 2012 3:17 PM

To: Isam El-Kassis
Subject: FW: RFQ - CCK's

Do you want to check and see if Apical will accept the change??

LL

From: Hearn, John [<mailto:John.Hearn@universalalloy.com>]
Sent: September-26-12 3:08 PM
To: llacelle@dartaero.com
Cc: Hearn, John
Subject: FW: RFQ

Linda,

The specifications included on the subject cannot be produced by our mill. WE could produce the angle on page 3 of 6 of the NC deflector package and we could produce the channel, however we would have to offer both as 7075-T6511 AMSQQ-A-200/11. Please let me know if you can use the specification offered and I will have our engineering department prepare a quote.

Also please provide an address and phone number.

John Hearn
Regional Sales Manager
Universal Alloy Corp
Ph (817) 729-2893

From: Linda Lacelle [<mailto:llacelle@dartaero.com>]
Sent: Wednesday, September 26, 2012 12:18 PM
To: Hearn, John
Subject: RFQ

Please advise price and delivery on extrusion of the attached drwgs. Please advise minimum qty's.

Thank You,
Linda Lacelle
Production manager
Dart Aerospace



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18070**

Purchase Order Date 10/04/12

PO Print Date 10/04/12

Page Number 1 of 1

Order From :

VU-UAC001

UNIVERSAL ALLOY CORPORATION
2871 LA MESA
P.O. BOX 6316

ANAHEIM, CALIFORNIA 92816-8316
USA

Contact Name

Buyer

Linda Lacelle

Vendor Phone

Requisition Nbr

Vendor Fax

714-630-7207

Tax Resale Nbr

10127-2607

Vendor Account Nbr

Terms

Net 30

Currency

USD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
----------	--	------------------------	----------------------	-----------------------------	-------------	------------	-------------------

1	646.9800P	Deflector Extrusion	11/08/12 Yes	360.00 f	Yours ppd	\$8.1022	\$2,916.79
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Special Inst: Per Drwg 646.9800
Mat'l : 7075-T6
price is per ft. price includes 275.00 Die
Charge

2	647.0300P	Channel Extrusion	11/08/12 Yes	120.00 f	Yours ppd	\$14.4760	\$1,737.12
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Special Inst: Per Drwg 647.0300
Mat'l : 7075-T6
price is per ft. price includes 275.00 Die
Charge

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

PO Total: \$4,653.91

Change Nbr: 1

Change Date: 10/04/12

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO

SHIPPER NO. 405310-1	UACPART NO. 66724
--------------------------------	----------------------

UNIVERSAL ALLOY CORPORATION
180 LAMAR HALEY PKWY CANTON, GA USA 30114
(770) 479-7230

PRODUCTION LOTS C553428 @12 PCS

S
H DART AEROSPACE
I 1270 ABERDEEN
P HAWKESBURY, ONTARIO CN, K6A 1K7
T
O

S
O DART AEROSPACE
L 1270 ABERDEEN
D HAWKESBURY, ONTARIO CN, K6A 1K7
T
O

27/320

CUSTOMER'S P.O. NO. PO18070 item 2	ORDER PLACED BY LINDA LACELLE	CUSTOMER'S PART NUMBER 647.03-CHANNEL ALUMINUM EXTRUSION
TERMS NET 60	ALLOY 7075 T6	SPECIFICATION NO. AMS-QQ-A-200/11 REV. N/C
SHIP VIA JOURNEY FREIGHT	DATE SHIPPED 11/16/2012	FREIGHT CHARGES PREPAID <input type="checkbox"/> COLLECT <input checked="" type="checkbox"/>
SHIPMENT PARTIAL <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/>		CERTIFICATIONS ATTACHED <input checked="" type="checkbox"/> TO FOLLOW <input type="checkbox"/>

QUANTITY SHIPPED					
FEET 144	PIECES X LENGTH 12 X 144.	NET PER PC 7	NET POUNDS 84	GROSS POUNDS 135	BOX 1 bundle of 1 Standard US box
RECEIVED BY X			DATE	TIME	

UNIVERSAL ALLOY CORPORATION ACCEPTS NO RESPONSIBILITY FOR ERROR IN SHIPMENT IF YOU FAIL TO NOTIFY US WITHIN 3 DAYS OF RECEIPT. NO REJECTED MATERIAL WILL BE ACCEPTED FOR CREDIT OR REPLACEMENT AFTER 30 DAYS FROM DATE OF RECEIPT.

SHIPPER NO. 405310-1	UACPART NO. 66724
--------------------------------	----------------------

UNIVERSAL ALLOY CORPORATION
180 LAMAR HALEY PKWY CANTON, GA USA 30114
(770) 479-7230

PRODUCTION LOTS C553428 @12 PCS

S
H DART AEROSPACE
I 1270 ABERDEEN
P HAWKESBURY, ONTARIO CN, K6A 1K7
T
O

S
O DART AEROSPACE
L 1270 ABERDEEN
D HAWKESBURY, ONTARIO CN, K6A 1K7
T
O

27/320

CUSTOMER'S P.O. NO. PO18070 item 2	ORDER PLACED BY LINDA LACELLE	CUSTOMER'S PART NUMBER 647.03-CHANNEL ALUMINUM EXTRUSION
TERMS NET 60	ALLOY 7075 T6	SPECIFICATION NO. AMS-QQ-A-200/11 REV. N/C
SHIP VIA JOURNEY FREIGHT	DATE SHIPPED 11/16/2012	FREIGHT CHARGES PREPAID <input type="checkbox"/> COLLECT <input checked="" type="checkbox"/>
SHIPMENT PARTIAL <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/>		CERTIFICATIONS ATTACHED <input checked="" type="checkbox"/> TO FOLLOW <input type="checkbox"/>

QUANTITY SHIPPED					
FEET 144	PIECES X LENGTH 12 X 144.	NET PER PC 7	NET POUNDS 84	GROSS POUNDS 135	BOX 1 bundle of 1 Standard US box
RECEIVED BY X			DATE	TIME	

UNIVERSAL ALLOY CORPORATION ACCEPTS NO RESPONSIBILITY FOR ERROR IN SHIPMENT IF YOU FAIL TO NOTIFY US WITHIN 3 DAYS OF RECEIPT. NO REJECTED MATERIAL WILL BE ACCEPTED FOR CREDIT OR REPLACEMENT AFTER 30 DAYS FROM DATE OF RECEIPT.

UNIVERSAL ALLOY CORPORATION

180 LAMAR HALEY PKWY CANTON, GA 30114 (770) 479-7230

EXTRUSION MILL CERTIFICATE OF CONFORMANCE INSPECTION AND TEST REPORT

CUSTOMER DART AEROSPACE LTD

PURCHASE ORDER PO18070 item 2 DATE 11/12/12

ORDER NUMBER 405310 PART NO. 647.03-CHANNEL rev N/C

SPECIFICATIONS AMS-QQ-A-200/11 REV. N/C MATERIAL 7075-T6

MECHANICAL PROPERTIES

SAMPLE OR LOT	TEST DIRECTION	TEST LOCATION	TENSILE STRENGTH KSI	YIELD STRENGTH KSI	ELONGATION %
C553428	L	Rear	89.2	81.4	12.8

out 12/11/22

MANUFACTURED IN THE U.S.A.

CHEMICAL COMPOSITION LIMITS											
ALLOY NOS	SI	FE	CU	MN	MG	CR	ZN	TI	EACH	OTHERS	TOTAL
7075	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	5.1-6.1	0.20	0.05		0.15

THIS IS TO CERTIFY THAT THE MATERIAL APPLIED TO THE ABOVE ORDER COVERED BY THIS REPORT HAS BEEN INSPECTED IN ACCORDANCE WITH THE SPECIFICATIONS DESCRIBED FORMING A PART OF THIS ORDER AND THAT REPRESENTATIVE MATERIAL HAS BEEN TESTED AND FOUND TO MEET THE APPLICABLE REQUIREMENTS. FURTHER SHOWN ARE THE COMPOSITION LIMITS AND MECHANICAL PROPERTY TEST RESULTS. DOCUMENTATION VERIFYING CONFORMANCE TO THESE REQUIREMENTS IS ON FILE AND SUBJECT TO EXAMINATION.

PERCENT MAXIMUM UNLESS SHOWN OTHERWISE
REMAINDER ALUMINUM

UNIVERSAL ALLOY CORPORATION

Mark Briguglio

Mark Briguglio Metallurgical Lab Manager
QUALITY ASSURANCE DEPARTMENT



553428T04